

Amendments to the Claims

Please amend Claims 12, 13 and 56. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

1. (Original) A medical advice expert system, comprising:
 - a graphical user interface that presents to a user coded medical information in at least one logical hierarchy, and that accepts selections of the presented information made by the user; and
 - an electronic medical record generator responsive to the graphical user interface and recording user selections into an electronic medical record.
2. (Original) The system of Claim 1, wherein at least one logical hierarchy is organized by physiological system.
3. (Withdrawn) The system of Claim 1, wherein at least one logical hierarchy is organized by type of examination.
4. (Original) The system of Claim 1, wherein the graphical user interface comprises:
 - an image of a body, from which a user can select a body part for examination.
5. (Withdrawn) The system of Claim 1, wherein the graphical user interface comprises:
 - examination method selection controls, from which the user can select an examination method.
6. (Withdrawn) The system of Claim 1, wherein the graphical user interface comprises:
 - at least one set of buttons optimized for a touchscreen, each button comprising:
 - a selection area; and
 - a description area.

7. (Withdrawn) The system of Claim 6,
wherein the button selection area comprises a bulbous portion large enough to be easily contacted with the user's finger without the finger contacting an adjacent button;
and
wherein the button description area comprises a narrow label portion protruding from the bulbous portion and containing a text label.
8. (Withdrawn) The system of Claim 7, wherein plural buttons are lined up in alternating opposite orientations so that they are tightly stacked.
9. (Withdrawn) The system of Claim 6, wherein the at least one set of buttons are for indicating physiological systems of observation.
10. (Withdrawn) The system of Claim 6, wherein each button of the at least one set of buttons corresponds to a medical coding system code for a medical observation and contains a descriptive label.
11. (Withdrawn) The system of Claim 1, further comprising:
an expert system that makes a suggestion based on user selections.
12. (Withdrawn-Currently amended) The system of Claim ~~[[1]]~~ 11 wherein the suggestion is a suggested test.
13. (Withdrawn-Currently amended) The system of Claim ~~[[1]]~~ 11 wherein the suggestion is a suggested study.
14. (Withdrawn) The system of Claim 11, wherein the suggestion is highlighted by the graphical user interface.
15. (Withdrawn) The system of Claim 1, wherein user inputs are accepted from any combination of touchscreen, mouse, keyboard, pen and tablet.

16. (Withdrawn) The system of Claim 1, further comprising:
 - a first monitor which displays patient information; and
 - a second monitor which displays the at least one logical hierarchy.
17. (Withdrawn) The system of Claim 16, wherein displayed patient information includes patient monitor information.
18. (Original) A patient history and examination support system, comprising:
 - a processor;
 - an input device connected to the processor;
 - a display connected to the processor; and
 - a graphical user interface presented on the display which assists a user in an examination of a patient and accepts medical data entered by the user, the medical data automatically corresponding to medical coding system codes, the graphical user interface comprising
 - an image of a body, from which a user can select a body part for examination,
 - examination method selection controls, from which the user can select an examination method,
 - a first set of controls indicating locations to which a selected examination method can be applied, and
 - a second set of user selectable controls based on the selected examination method and the selected body part, each second set control corresponding to a medical coding system code for a medical observation and containing a descriptive label, user selection of a second set control being medical data entered by the user.
19. (Original) The system of Claim 18, further comprising:
 - storage for storing codes associated with the entered medical data, the stored codes being associated with the patient.

20. (Original) The system of Claim 18, wherein the body image is updated based on user selections.
21. (Withdrawn) The system of Claim 18, wherein a touch-sensitive screen serves as both the display and the input device.
22. (Withdrawn) The system of Claim 21, wherein the user selects a body part by touching a corresponding part of the body image displayed on the screen.
23. (Withdrawn) The system of Claim 21, wherein the user selects a control by touching the control as displayed on the screen.
24. (Withdrawn) The system of Claim 23, wherein a control comprises
 - a bulbous portion large enough to be easily contacted with the user's finger without the finger contacting an adjacent control; and
 - a narrow label portion protruding from the bulbous portion and containing a text label.
25. (Withdrawn) The system of Claim 24, wherein plural controls are lined up alternately in opposite orientations so that they are tightly stacked.
26. (Withdrawn) The system of Claim 18, further comprising an electronic medical record generator for generating an electronic medical record from the stored medical data.
27. (Withdrawn) The system of Claim 18, further comprising a request generator for generating a request for at least one of a test, a study and a consultation, based on the stored medical data.
28. (Withdrawn) The system of Claim 18, wherein the second set of controls comprises a list of common findings for at least one selected system.

29. (Withdrawn) The system of Claim 28, wherein controls associated with normal findings are highlighted.
30. (Withdrawn) The system of Claim 18, wherein the second set of controls comprises a list of possible findings for a selected system.
31. (Withdrawn) The system of Claim 30, wherein a particular part of the body image is highlighted upon selection by the user, controls representing common observations for the selected body part being highlighted.
32. (Withdrawn) The system of Claim 31, wherein selection of a body part from the body image is sticky, such that plural body parts are selectable and highlighted concurrently by the user sequentially selecting the corresponding parts on the body image.
33. (Withdrawn) The system of Claim 30 wherein, upon the user selecting an observation, the observation is stored in the storage.
34. (Withdrawn) The system of Claim 33 wherein, upon the user selecting an observation, a differential diagnosis list is updated based on the observation.
35. (Withdrawn) The system of Claim 34, wherein the differential diagnosis list is provided in a separate window.
36. (Withdrawn) The system of Claim 35 wherein the separate window is a pop-up list.
37. (Withdrawn) The system of Claim 35, wherein the separate window is displayed in a separate monitor from the controls.
38. (Withdrawn) The system of Claim 30, further comprising:
an expert system which suggests an item that the user should examine by highlighting a control associated with the item.

39. (Original) The system of Claim 18, wherein the body image comprises an image of a whole body.
40. (Original) The system of Claim 18, wherein the body image comprises an image of a portion of a body.
41. (Original) The system of Claim 40, wherein the portion of a body displayed in the body image depends on a medical discipline associated with the examination.
42. (Original) The system of Claim 41, wherein the graphical user interface initially displays the portion of a body.
43. (Original) The system of Claim 40, wherein the portion of a body displayed in the body image depends on a previous selection made by the user.
44. (Original) The system of Claim 18, wherein the body image is of a human body.
45. (Original) The system of Claim 44, wherein the body image is according to gender.
46. (Original) The system of Claim 44, wherein the body image is according to race.
47. (Original) The system of Claim 44, wherein the body image is according to age.
48. (Withdrawn) The system of Claim 18, wherein a differential diagnosis list for the patient is provided in a separate window.
49. (Withdrawn) The system of Claim 18, further comprising a patient history window.
50. (Withdrawn) The system of Claim 49, wherein the patient history window is a pop-up window.

51. The system of Claim 49, wherein the patient history window is displayed in a separate monitor from the controls.
52. (Withdrawn) The system of Claim 49, wherein each sentence in the patient history window represents at least one observation.
53. (Withdrawn) The system of Claim 18, further comprising:
a patient examination window indicating which examinations have been performed.
54. (Withdrawn) The system of Claim 53, wherein the patient examination window further indicates which examinations have not been performed.
55. (Withdrawn) The system of Claim 53 wherein, upon user selection of an examination in the patient examination window, a data entry screen relevant to the examination is displayed.
56. (Withdrawn-Currently amended) The system of Claim ~~[[49]]~~ 53, wherein each sentence in the patient examination window represents at least one observation.
57. (Withdrawn) The system of Claim 56, wherein the patient examination window includes patient history.
58. (Withdrawn) The system of Claim 57 wherein, upon selection of a sentence/observation in the patient examination window, a data entry screen used to enter that sentence/observation is displayed.
59. (Withdrawn) The system of Claim 58, wherein the user is provided the ability, within the data entry screen, to modify/delete the sentence/observation.

60. (Withdrawn) The system of Claim 18, further comprising examples that can be used for comparison against an observation of the patient.
61. (Withdrawn) The system of Claim 60, wherein the examples are visual.
62. (Withdrawn) The system of Claim 60, wherein the examples are aural.
63. (Withdrawn) The system of Claim 18, wherein suggested tests/studies are shown in a separate window.
64. (Withdrawn) The system of Claim 63, wherein the separate window is a pop-up window.
65. (Withdrawn) The system of Claim 63, wherein the separate window is displayed in a separate monitor from the controls.
66. (Withdrawn) The system of Claim 18, wherein the input device comprises any combination of touchscreen, mouse, keyboard, pen and tablet.
67. (Original) A computer program product for providing a graphical user interface on a touch-sensitive screen, including program code which displays:
 - an image of a body, from which a user, by touching a part of the body image, can select a body part for examination;
 - examination method selection controls, from which the user can select an examination method;
 - a first set of controls indicating systems of observation to which a selected examination method can be applied; and
 - a second set of controls, each corresponding to a medical coding system code for a medical observation and containing a descriptive label, members of the second set of controls being based on the selected examination method and a selected body part, and for each member, upon user selection of the member, the corresponding medical coding system code being stored.

68. (Withdrawn) The computer program product of Claim 67, wherein the controls of the second set of controls are highlighted to indicate and distinguish between normal observations, common observations and examinations suggested by the system.
69. (Withdrawn) The computer program product of Claim 68, wherein a control is highlighted by coloring the control.
70. (Withdrawn) The computer program product of Claim 68, wherein a control is highlighted by coloring its text.
71. (Original) A medical advice expert method, comprising:
 - using a graphical user interface, presenting to a user coded medical information in at least one logical hierarchy;
 - accepting selections of the presented information made by the user; and
 - generating an electronic medical record by recording user selections.
72. (Original) The method of Claim 71, wherein at least one logical hierarchy is organized by physiological system.
73. (Original) The method of Claim 71, wherein at least one logical hierarchy is organized by body part.
74. (Withdrawn) The method of Claim 71, wherein at least one logical hierarchy is organized by type of examination.
75. (Original) The method of Claim 71, wherein the graphical user interface comprises:
 - an image of a body, from which a user can select a physiological method for examination.

76. (Withdrawn) The method of Claim 71, wherein the graphical user interface comprises:
examination method selection controls, from which the user can select an
examination method.
77. (Withdrawn) The method of Claim 71, wherein the graphical user interface comprises:
at least one set of buttons optimized for a touchscreen, each button comprising:
a selection area; and
a description area.
78. (Withdrawn) The method of Claim 77,
wherein the button selection area comprises a bulbous portion large enough to be
easily contacted with the user's finger without the finger contacting an adjacent button;
and
wherein the button description area comprises a narrow label portion protruding
from the bulbous portion and containing a text label.
79. (Withdrawn) The method of Claim 78, wherein plural buttons are lined up alternately in
opposite orientations so that they are tightly stacked.
80. (Withdrawn) The method of Claim 77, wherein the at least one set of buttons are for
indicating systems of observation.
81. (Withdrawn) The method of Claim 77, wherein each button of the at least one set of
buttons corresponds to a medical coding system code for a medical observation and
contains a descriptive label.
82. (Withdrawn) The method of Claim 71, further comprising:
making a suggestion based on user selections.
83. (Withdrawn) The method of Claim 82, further comprising:

highlighting the suggestion in the graphical user interface.

84. (Withdrawn) The method of Claim 82, wherein the suggestion is a suggested test.
85. (Withdrawn) The method of Claim 82, wherein the suggestion is a suggested study.
86. (Withdrawn) The method of Claim 71 wherein user inputs are accepted from any combination of touchscreen, mouse, keyboard, pen and tablet.
87. (Withdrawn) The method of Claim 71, further comprising:
 - displaying patient information on a first monitor; and
 - displaying the at least one logical hierarchy on a second monitor.
88. (Withdrawn) The system of Claim 83, wherein displayed patient information includes patient monitor information.
89. (Original) A patient history and examination support method, comprising:
 - presenting a graphical user interface which assists a user in an examination of a patient and accepts medical data, entered by the user, that automatically corresponds with a medical coding system code, including:
 - presenting an image of a body, from which a user can select a body part for examination,
 - presenting examination method selection controls, from which the user can select an examination method,
 - presenting a first set of controls indicating systems of observation to which a selected examination method can be applied, and
 - presenting a second set of controls based on the selected examination method and a selected body part, each second set control corresponding to a medical coding system code for a medical observation and containing a descriptive label, for each one of said second set of

controls, upon user selection of the control, there being respective medical data entered.

90. (Original) The method of Claim 89, further comprising:
storing codes associated with the entered medical data, the stored codes being associated with the patient.
91. (Original) The method of Claim 89, further comprising:
updating the image based on user selection.
92. (Withdrawn) The method of Claim 89, wherein the graphics user interface is presented on a touch-sensitive screen.
93. (Withdrawn) The method of Claim 92, the user selecting a physiological method by touching a corresponding part of the body image.
94. (Withdrawn) The method of Claim 92, the user selecting a control by touching the control.
95. (Withdrawn) The method of Claim 94, wherein a control comprises
a bulbous portion large enough to be easily contacted with the user's finger without the finger contacting an adjacent control; and
a narrow label portion protruding from the bulbous portion and containing a text label.
96. (Withdrawn) The method of Claim 95, further comprising:
lining up plural controls alternately in opposite orientations so that they are tightly stacked.
97. (Withdrawn) The method of Claim 89, further comprising:
generating an electronic medical record from the stored medical data.

98. (Withdrawn) The method of Claim 89, further comprising:
generating a request for at least one of a test, a study and a consultation, based on the stored medical data.
99. (Withdrawn) The method of Claim 89, wherein the second set of controls comprises a list of common findings for at least one selected system.
100. (Withdrawn) The method of Claim 99, further comprising:
highlighting controls associated with normal findings.
101. (Withdrawn) The method of Claim 89, wherein the second set of controls comprises a list of possible findings for a selected method.
102. (Withdrawn) The method of Claim 89, wherein the second set of controls comprises plural observations for a selected method.
103. (Withdrawn) The method of Claim 102, further comprising:
highlighting a particular part of the body image upon contact by the user; and
highlighting controls representing common observations for the particular body part.
104. (Withdrawn) The method of Claim 103, wherein selection of a body part from the body image is sticky, plural body parts being selectable and highlighted concurrently by the user sequentially touching the corresponding parts on the body image.
105. (Withdrawn) The method of Claim 102 further comprising:
upon the user selecting an observation, storing the observation.
106. (Withdrawn) The method of Claim 105 further comprising:
upon the user selecting an observation, updating a differential diagnosis list based on the observation.

107. (Withdrawn) The method of Claim 106, wherein the differential diagnosis list is available as a separate window.
108. (Withdrawn) The method of Claim 107, wherein the separate window is a pop-up window.
109. (Withdrawn) The method of Claim 107, wherein the separate window is displayed in separate monitor from the controls.
110. (Withdrawn) The method of Claim 102, further comprising:
suggesting an item that the user should examine by highlighting a controls associated with the item.
111. (Original) The method of Claim 89, wherein the body image comprises an image of a whole body.
112. (Original) The method of Claim 89, wherein the body image comprises an image of portion of a body.
113. (Original) The method of Claim 112, wherein the portion of a body displayed in the body image depends on a medical discipline associated with the examination.
114. (Original) The method of Claim 113, wherein the portion of a body is initially displayed.
115. (Original) The method of Claim 112, wherein the portion of a body displayed in the body image depends on a previous selection made by the user.
116. (Original) The method of Claim 89, wherein the body image is of a human body.
117. (Original) The method of Claim 116, wherein the body image is according to gender.

- 118. (Original) The method of Claim 116, wherein the body image is according to race.
- 119. (Original) The method of Claim 116, wherein the body image is according to age.
- 120. (Withdrawn) The method of Claim 89, wherein a differential diagnosis list for the patient is displayed in a separate window.
- 121. (Withdrawn) The method of Claim 89, further comprising:
displaying a patient history window.
- 122. (Withdrawn) The method of Claim 121, wherein the patient history window is a pop-up window.
- 123. (Withdrawn) The method of Claim 121, wherein the patient history window is displayed in a separate monitor from the controls.
- 124. (Withdrawn) The method of Claim 89, further comprising:
a patient examination window, indicating which examinations have been performed.
- 125. (Withdrawn) The method of Claim 124, the patient examination window further indicating which examinations have not been performed.
- 126. (Withdrawn) The method of Claim 124 further comprising:
upon selection by the user of a system of examination in the patient examination window, displaying a data entry screen relevant to the system of examination.
- 127. (Withdrawn) The method of Claim 124, wherein the patient examination window includes patient history.

128. (Withdrawn) The method of Claim 124, wherein each sentence in the patient examination window represents one observation.
129. (Withdrawn) The method of Claim 128 further comprising:
upon selection of a sentence/observation in the patient examination window,
displaying a data entry screen used to enter that sentence/observation.
130. (Withdrawn) The method of Claim 129, further comprising:
allowing the user to modify/delete the sentence/observation within the data entry
screen.
131. (Withdrawn) The method of Claim 89, further comprising:
providing examples that can be used for comparison against an observation of the
patient.
132. (Withdrawn) The method of Claim 131, wherein the examples are visual.
133. (Withdrawn) The method of Claim 131, wherein the examples are aural.
134. (Withdrawn) The method of Claim 89, further comprising displaying suggested
tests/studies in a separate window.
135. (Withdrawn) The method of Claim 134, wherein the separate window is a pop-up
window.
136. (Withdrawn) The method of Claim 134, wherein the separate window is displayed on a
separate monitor from the controls.

137. (Original) A medical advice expert system, comprising:
 means for presenting to a user, using a graphical user interface, coded medical information in at least one logical hierarchy;
 means for accepting selections of the presented information made by the user; and
 means for generating an electronic medical record by recording user selections.
138. (Original) The system of Claim 137, further comprising:
 time entry means for entering patient history.
139. (Original) A patient history and examination support system, comprising:
 means for presenting a graphical user interface which assists a user in an examination of a patient and accepts medical data, entered by the user, that automatically corresponds with a medical coding system code, said means for presenting a graphical user interface comprising:
 means for presenting an image of a body, from which a user can select a physiological method for examination,
 means for presenting examination method selection controls, from which the user can select an examination method,
 means for presenting a first set of controls indicating methods of observation to which a selected examination method can be applied, and
 means for presenting a second set of controls based on the selected examination method and a selected physiological method, each second set control corresponding to a medical coding system code for a medical observation and containing a descriptive label, for each one of said second set of controls, upon user selection of the control, there being respective medical data entered; and
 means for storing codes associated with the entered medical data, the stored codes being associated with the patient.

140. (Original) A medical advice expert computer program product, the computer program product comprising a computer usable medium having computer readable code thereon, including program code which:
- presents to a user, using a graphical user interface, coded medical information in at least one logical hierarchy;
 - accepts selections of the presented information made by the user; and
 - generates an electronic medical record by recording user selections.
141. (Original) A patient history and examination support computer program product, the computer program product comprising a computer usable medium having computer readable code thereon, including program code which:
- presents an image of a body, from which a user can select a physiological method for examination;
 - presents examination method selection controls, from which the user can select an examination method;
 - presents a first set of controls indicating methods of observation to which a selected examination method can be applied;
 - presents a second set of controls based on the selected examination method and a selected physiological method, each second set control corresponding to a medical coding method code for a medical observation and containing a descriptive label; and
 - stores codes associated with the entered medical data.